

FIG. 1

202

Example

Entry conditions:		
Expected TOS = 5		
Actual TOS = 5		
Source	Value	Target
ST(2)	C	f27
ST(1)	B	f26
ST(0)	A	f25
ST(7)	*	f24
ST(6)	*	f23
ST(5)	*	f22
ST(4)	*	f21
ST(3)	*	f20

204

Code Block $\beta\beta 1$	
Source:	
L1: FMULP	: //pop
JMP L2	
Translated pseudo-code:	
L1: Cmp 5, Actual_TOS	
NE ? BR Correct	
f26 = f26 * f25	
Actual_TOS = 6	
BR L2	

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After $\beta\beta 1$ execution:		
Expected TOS = 6		
Actual TOS = 6		
Source	Value	Target
ST(1)	C	f27
ST(0)	AB	f26
ST(7)	*	f25
ST(6)	*	f24
ST(5)	*	f23
ST(4)	*	f22
ST(3)	*	f21
ST(2)	*	f20

208

Code Block $\beta\beta 2$	
Source:	
L2: FADDP	: //pop
FLDE [eax];	//push
JMP L3	
Translated pseudo-code:	
L2: Cmp 6, Actual_TOS	
NE ? BR Correct	
f27 = f26 + f27	
fldc f26 = [f20]	
BR L3	

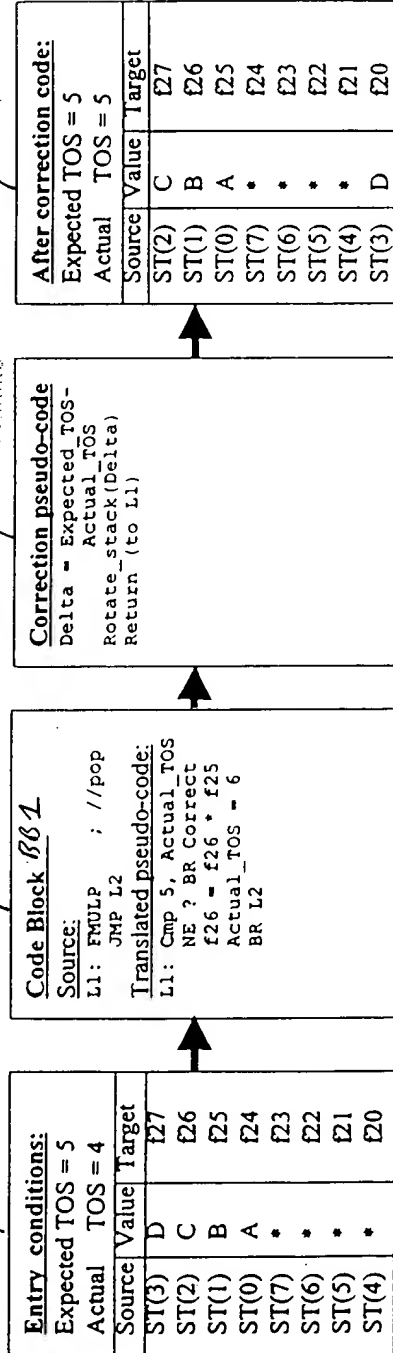
210

After $\beta\beta 2$ execution:		
Expected TOS = 6		
Actual TOS = 6		
Source	Value	Target
ST(1)	AB+C	f27
ST(0)	X	f26
ST(7)	*	f25
ST(6)	*	f24
ST(5)	*	f23
ST(4)	*	f22
ST(3)	*	f21
ST(2)	*	f20

Fig. 2

302

304 306 308



316

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312

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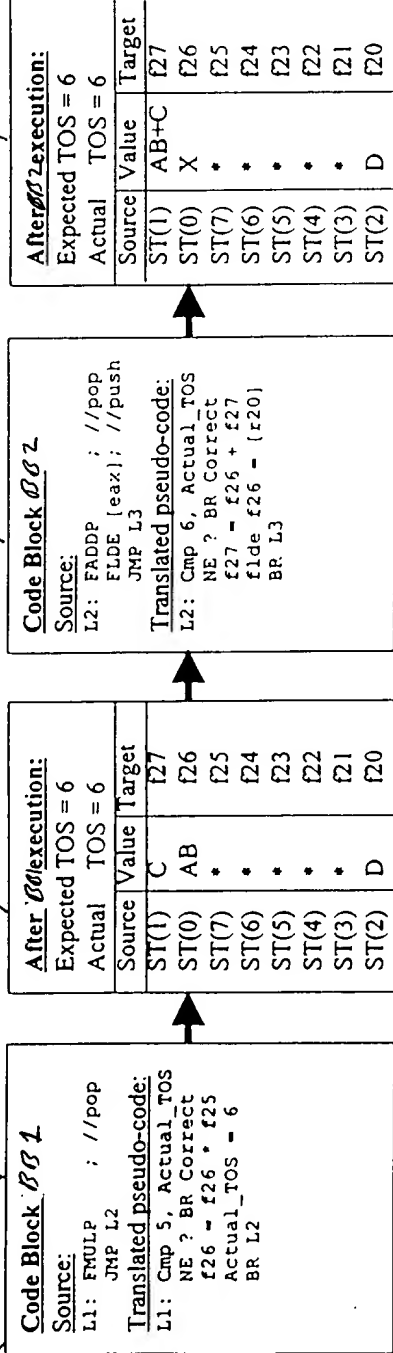


Fig. 3

